

Use Attainability Analysis

for

WBID 1864 Little Dry Fork

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources  
Water Protection Program

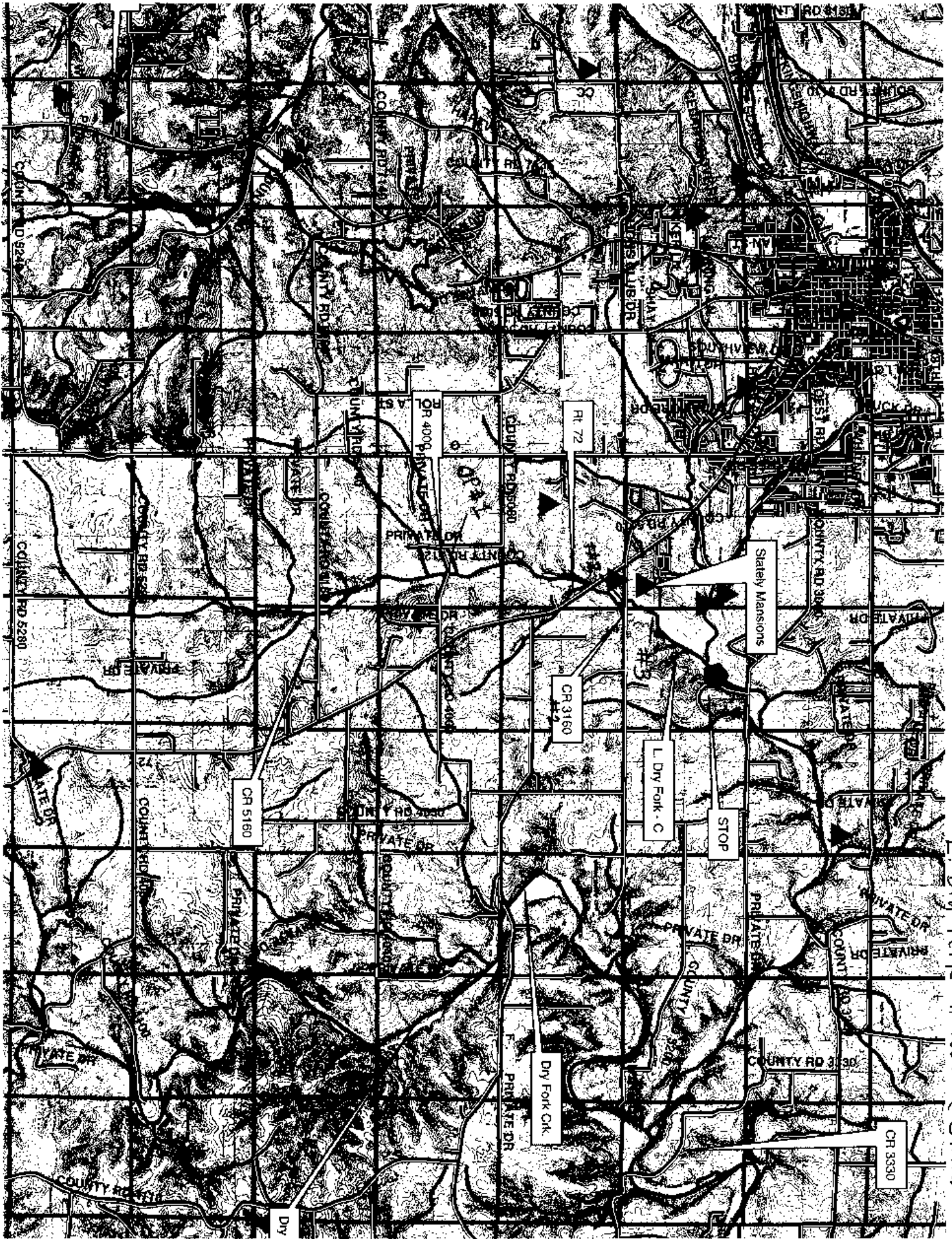
**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet A - Water Body Identification**

|  |                                   |
|--|-----------------------------------|
| Water Body Name (from USGS 7.5' quad): | Little Dry Fork                   |
| 8-digit HUC:                           | 07140102                          |
| Missouri WBID #:                       | 1864                              |
| County:                                | Phelps                            |
| Upstream Legal Description:            | NE 1/4, Sec. 30 T37N R7W          |
| Downstream Legal Description:          | SW 1/4, Sec. 17 T37N R7W          |
| Upstream Coordinates:                  | UTM 611523 4195781                |
| Downstream Coordinates:                | UTM 612195 4198362                |
| Discharger Facility Name(s):           |                                   |
| Discharger Permit Number(s):           |                                   |
| Number of Sites Evaluated:             | 3                                 |
| Name of Surveyor and Telephone Number: | Tucker Fredrickson (573) 526-4210 |
| Organization:                          | MDNR                              |
| Position:                              | Environmental Specialist          |

**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

Signed: Tucker Fredrickson Date: 5/16/05



L. Dry Fork # 1264 (5 miles)

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization (A separate data sheet must be completed for each site)

|   |  |                                    |
|---|--|------------------------------------|
| Missouri WBID #: <b>1864</b>                  | Site Location Description: <b>Bridge crossing County Road 5000</b> |                                    |
| Site GPS Coordinates: <b>611523 4195781</b>   | <b>OP #1</b>   |                                    |
| Date & Time: <b>5/16/05 1:00PM</b>            | Facility Name: <b>Little Dry Fork</b>                              |                                    |
| Personnel: <b>Tucker Fredrickson</b>          | Permit Number:   |                                    |
| Current Weather Conditions: <b>Sunny 65°F</b> | Weather Conditions for Past 7 days: <b>Approx. 2" rain</b>         |                                    |
| Photo Ids: Upstream: <b>29</b>                | Downstream: <b>30</b>  | Other: <b>High Temp Range-80's</b> |

### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

NA

### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |   |  |   |
|--|--------------------------------------|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas                 | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails               | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input type="checkbox"/> Steep slopes           | <input checked="" type="checkbox"/> Other: <b>NA</b> |   |

### Evidence of Human Use\*:

|                                      |   |  |   |  |
|--------------------------------------|---|--|---|--|
| <input type="checkbox"/> Roads       | <input checked="" type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites                | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:      |   |  |   |  |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

## Data Sheet B - Site Characterization

Page Two - WBID #1864:

## Stream Morphology:

## Upstream View Physical Dimensions:

|   |                 |   |                                   |                       |
|---|-----------------|---|-----------------------------------|-----------------------|
| <input type="checkbox"/> Riffle         | Width (ft):     | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):      |
| <input checked="" type="checkbox"/> Run | Width (ft): 25' | Length (ft): 25'  | Avg. Depth (ft): 0.75'            | Max. Depth (ft): 1.0' |
| <input type="checkbox"/> Pool           | Width (ft):     | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):      |
| <input type="checkbox"/> Flow           | Present?        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                       |

## Downstream View Physical Dimensions:

|  |                 |   |                                   |                     |
|--|-----------------|---|-----------------------------------|---------------------|
| <input type="checkbox"/> Riffle          | Width (ft):     | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):    |
| <input type="checkbox"/> Run             | Width (ft):     | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):    |
| <input checked="" type="checkbox"/> Pool | Width (ft): 25' | Length (ft): 30'  | Avg. Depth (ft): 1.0'             | Max. Depth (ft): 3' |
| <input type="checkbox"/> Flow            | Present?        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                     |

## Substrate\*: (These values should add up to 100%.)

|             |             |           |        |            |              |
|-------------|-------------|-----------|--------|------------|--------------|
| 20 % Cobble | 10 % Gravel | 20 % Sand | % Silt | % Mud/Clay | 50 % Bedrock |
|-------------|-------------|-----------|--------|------------|--------------|

## Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

|                                |
|--------------------------------|
| algae - 50% substrate coverage |
|--------------------------------|

## Water Characteristics\*: (Mark all that apply.)

|                  |   |                                 |  |  |                                 |
|------------------|---|---------------------------------|--|--|---------------------------------|
| Odor:            | <input type="checkbox"/> Sewage           | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color:           | <input checked="" type="checkbox"/> Clear | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray                      | <input type="checkbox"/> Milky           | <input type="checkbox"/> Other: |
| Bottom Deposit:  | <input type="checkbox"/> Sludge           | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None            | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil              | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam                      | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

Observed an 8" bass and other 6" sunfish

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Judek Fredrickson Date: 5/16/05  
 Organization: MDNR Position: ES

Downed water gap across creek



1864\_01\_US



1864\_01\_DS



# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization (A separate data sheet must be completed for each site)

|  |   |                                |
|--|---|--------------------------------|
| Missouri WBID #: 1864                  | Site Location Description: Bridge crossing Co. Rd. 3160 |                                |
| Site GPS Coordinates: 611919 4197958   | OP # 2  |                                |
| Date & Time: 5/16/05 (1:20 PM)         | Facility Name: Little Dry Fork                          |                                |
| Personnel: TUCKER Fredrickson          | Permit Number:  |                                |
| Current Weather Conditions: Sunny 65°F | Weather Conditions for Past 7 days: Approx. 2" rain     |                                |
| Photo Ids: Upstream: 31                | Downstream: 32  | Other: High Temp. Range - 80's |

### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

NA

### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |   |   |   |
|--|--------------------------------------|---|---|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas          | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails        | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input type="checkbox"/> Steep slopes           | <input checked="" type="checkbox"/> Other: NA |   |

### Evidence of Human Use\*:

|   |  |  |   |  |
|---|--|--|---|--|
| <input type="checkbox"/> Roads                | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings          | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input checked="" type="checkbox"/> Other: NA |  |  |   |  |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

## Data Sheet B - Site Characterization

Page Two - WBID # 1864:

## Stream Morphology:

## Upstream View Physical Dimensions:

|  |   |                                   |                              |                             |
|--|---|-----------------------------------|------------------------------|-----------------------------|
| <input checked="" type="checkbox"/> Riffle | Width (ft): <u>15</u>   | Length (ft): <u>70</u>            | Avg. Depth (ft): <u>0.25</u> | Max. Depth (ft): <u>0.5</u> |
| <input type="checkbox"/> Run               | Width (ft):   | Length (ft):                      | Avg. Depth (ft):             | Max. Depth (ft):            |
| <input type="checkbox"/> Pool              | Width (ft):   | Length (ft):                      | Avg. Depth (ft):             | Max. Depth (ft):            |
| <input type="checkbox"/> Flow Present?     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |                             |

## Downstream View Physical Dimensions:

|   |   |                                   |                             |                              |
|---|---|-----------------------------------|-----------------------------|------------------------------|
| <input type="checkbox"/> Riffle         | Width (ft):   | Length (ft):                      | Avg. Depth (ft):            | Max. Depth (ft):             |
| <input checked="" type="checkbox"/> Run | Width (ft): <u>15</u>   | Length (ft): <u>150</u>           | Avg. Depth (ft): <u>0.5</u> | Max. Depth (ft): <u>0.75</u> |
| <input type="checkbox"/> Pool           | Width (ft):   | Length (ft):                      | Avg. Depth (ft):            | Max. Depth (ft):             |
| <input type="checkbox"/> Flow Present?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                             |                              |

## Substrate\*: (These values should add up to 100%.)

|          |           |          |  |        |  |        |  |            |  |           |           |
|----------|-----------|----------|--|--------|--|--------|--|------------|--|-----------|-----------|
| % Cobble | <u>40</u> | % Gravel |  | % Sand |  | % Silt |  | % Mud/Clay |  | <u>60</u> | % Bedrock |
|----------|-----------|----------|--|--------|--|--------|--|------------|--|-----------|-----------|

## Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

|                                       |
|---------------------------------------|
| <u>algae - 75% substrate coverage</u> |
|---------------------------------------|

## Water Characteristics\*: (Mark all that apply.)

|                  |                                 |                                 |   |                                |                                 |
|------------------|---------------------------------|---------------------------------|---|--------------------------------|---------------------------------|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical       | <input type="checkbox"/> None  | <input type="checkbox"/> Other: |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray           | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input type="checkbox"/> Fine sediments | <input type="checkbox"/> None  | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam           | <input type="checkbox"/> None  | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

Lots of woody debris under bridge, minnows observed

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: John Fredrickson Date: 5/16/05  
 Organization: MDNR Position: ES



1864\_02\_US



1864\_02\_DS



# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization (A separate data sheet must be completed for each site)

|  |  |                               |  |
|--|--|-------------------------------|--|
| Missouri WBID #: 1864                  | Site Location Description: OP #3 Downstream of Stately Mansions MNP Lagoon Discharge |                               |  |
| Site GPS Coordinates: 612195 4198362   | Facility Name: Little Dry Fork   |                               |  |
| Date & Time: 5/16/05 2:15 PM           | Permit Number:   |                               |  |
| Personnel: 612195 Tucker, Frederickson | Weather Conditions for Past 7 days: Approx. 2" rain                                  |                               |  |
| Current Weather Conditions: Sunny 65°F | Weather Conditions for Past 7 days: Approx. 2" rain                                  |                               |  |
| Photo Ids: Upstream: 33                | Downstream: 34   | Other: High Temp. Range: 80's |  |

### Uses Observed\*:

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

NA

### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |   |   |   |
|--|--------------------------------------|---|---|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas          | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails        | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input type="checkbox"/> Steep slopes           | <input checked="" type="checkbox"/> Other: NA |   |

### Evidence of Human Use\*:

|   |  |  |   |  |
|---|--|--|---|--|
| <input type="checkbox"/> Roads                | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings          | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input checked="" type="checkbox"/> Other: NA |  |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

## Data Sheet B - Site Characterization

Page Two - WBID # 1864:

## Stream Morphology:

## Upstream View Physical Dimensions:

|  |                        |   |                                   |                              |
|--|------------------------|---|-----------------------------------|------------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input type="checkbox"/> Run             | Width (ft):            | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):             |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>25'</u> | Length (ft): <u>100'</u>  | Avg. Depth (ft): <u>0.75'</u>     | Max. Depth (ft): <u>1.0'</u> |
| <input type="checkbox"/> Flow            | Present?               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |

## Downstream View Physical Dimensions:

|  |                       |   |                                   |                             |
|--|-----------------------|---|-----------------------------------|-----------------------------|
| <input type="checkbox"/> Riffle          | Width (ft):           | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):            |
| <input type="checkbox"/> Run             | Width (ft):           | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):            |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>30</u> | Length (ft): <u>90</u>  | Avg. Depth (ft): <u>0.75</u>      | Max. Depth (ft): <u>1.5</u> |
| <input type="checkbox"/> Flow            | Present?              | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                             |

## Substrate\*: (These values should add up to 100%.)

|                    |                    |        |        |            |                     |
|--------------------|--------------------|--------|--------|------------|---------------------|
| <u>30</u> % Cobble | <u>20</u> % Gravel | % Sand | % Silt | % Mud/Clay | <u>50</u> % Bedrock |
|--------------------|--------------------|--------|--------|------------|---------------------|

## Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

|                                       |
|---------------------------------------|
| <u>algae - 75% substrate coverage</u> |
|---------------------------------------|

## Water Characteristics\*: (Mark all that apply.)

|                  |   |                                 |   |  |                                 |
|------------------|---|---------------------------------|---|--|---------------------------------|
| Odor:            | <input type="checkbox"/> Sewage           | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical       | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color:           | <input checked="" type="checkbox"/> Clear | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray           | <input type="checkbox"/> Milky           | <input type="checkbox"/> Other: |
| Bottom Deposit:  | <input type="checkbox"/> Sludge           | <input type="checkbox"/> Solids | <input type="checkbox"/> Fine sediments | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil              | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam           | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

3" fish observed, dead dog carcass in creek (150' upstream)

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Jude Fredrickson Date: 5/16/05  
 Organization: M.D.N.R. Position: ES



1864\_03\_US



1864\_03\_DS

